

Title (en)

Electrolyte for a lithium-sulfur battery and a lithium-sulfur battery using the same

Title (de)

Elektrolyt für eine Lithium-Schwefel Batterie und diesen Elektrolyten enthaltende Lithium-Schwefel Batterie

Title (fr)

Electrolyte pour batterie du type lithium-soufre et batterie de ce type comportant cet électrolyte

Publication

EP 1176659 A2 20020130 (EN)

Application

EP 01117661 A 20010725

Priority

- KR 20000042736 A 20000725
- KR 20000042737 A 20000725

Abstract (en)

An electrolyte for a lithium-sulfur battery having a solvent having a dielectric constant that is greater than or equal to 20, a solvent having a viscosity that is less than or equal to 1.3, and an electrolyte salt. This battery shows excellent capacity and cycle life characteristics.

IPC 1-7

H01M 10/40

IPC 8 full level

H01M 4/136 (2010.01); **H01M 4/40** (2006.01); **H01M 4/58** (2010.01); **H01M 4/60** (2006.01); **H01M 10/05** (2010.01); **H01M 10/052** (2010.01); **H01M 10/0567** (2010.01); **H01M 10/0568** (2010.01); **H01M 10/0569** (2010.01); **H01M 4/38** (2006.01); **H01M 6/16** (2006.01); **H01M 10/42** (2006.01)

CPC (source: EP KR US)

H01M 4/13 (2013.01 - EP US); **H01M 4/133** (2013.01 - EP US); **H01M 4/58** (2013.01 - KR); **H01M 4/5815** (2013.01 - EP US); **H01M 4/602** (2013.01 - EP US); **H01M 10/052** (2013.01 - EP US); **H01M 10/0567** (2013.01 - EP US); **H01M 10/0568** (2013.01 - KR); **H01M 10/0569** (2013.01 - EP KR US); **H01M 4/38** (2013.01 - EP US); **H01M 6/164** (2013.01 - EP US); **H01M 6/168** (2013.01 - EP US); **H01M 10/4235** (2013.01 - EP US); **H01M 2300/0025** (2013.01 - EP US); **H01M 2300/0037** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Cited by

EP4207424A4; EP2709194A1; US8679684B2; CN111293349A; GB2459577A; GB2440823A; GB2440823B; GB2459577B; US9023518B2; US10461316B2; US10811728B2; US9899705B2; WO2004075332A1; WO2004084335A3; WO2013009108A3; US10038223B2; US10020533B2; KR101108945B1; KR101335467B1; US9893387B2; US9935343B2

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